

APPLIANCE FOR FIXATION AND TENSION OF KNEES UNDER MRI EXAMINATION

ABSTRACT OF THE DISCLOSURE

5 The device is a diagnostic tool for the determination of the functional loss of the
soft tissue of one or both knees. The device allows for flexion of the knees against a
biasing force for observation by magnetic resonance imaging. A supporting member is
hingedly connected to a lever arm, both transparent to MRI. In turn, lower extremities of
the knees under study are affixed to the lever arm. The lever arm is biased toward full
extension by tension applied to the lever arm through a tensioning device. The tensioning
10 device comprises elastic cords and several pulleys configured to apply a nearly constant
biasing force throughout a range of flexion. Within the lever arm, an image generating
device comprising a vial of electrolyte generates a bar of length proportionate to the
degree of flexion.